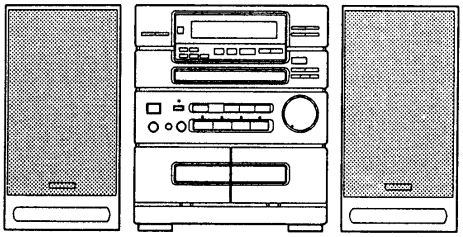
aiwa

NSX-360

SERVICE MANUAL



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM-3 PR3
- BASIC CD MECHANISM : KSL-2101ABM
- TYPE. V

[SUPPLEMENT]

[REVISION PUBLISHING]

■ Only the modifications are stated in this manual.
Use this manualwith NSX-360 (TYPE.HE) service manual (S/M Code NO.0234)

S/M Code No.09-93C-047-30K

SPECIFICATION

<FM section>

Frequency range	FM 1 (OIRT) 65 MHz to 74 MHz (10 kHz step) FM 2 (CCIR) 87.5 MHz to 108 MHz (50kHz step)
Usable sensitivity (IHF)	1.4 µV (75 ohms) 14.2 dBf
Alternate channel selectivity	50 dB (±400 kHz)
Signal-to-noise ratio	STEREO: 70 dB MONO: 76 dB
Harmonic distortion	0.3 % (MONO), 1 kHz 0.5 % (STEREO, L-R), 1 kHz
Frequency response	30 Hz to 15 kHz (+0.5 dB, – 3 dB)
Stereo separation	33 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<MW section>

Frequency range	531/530 kHz to 1,602/1,710 kHz (9/10 kHz step)
Usable sensitivity	350 µV/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Antenna	Loop antenna

<LW section>

Frequency range	144 kHz to 290 kHz
Sensitivity	1,400 µV/m
Antenna	Loop antenna

<Timer section>

Program timer	On-timer, capable of free setting
Sleep timer	Capable of setting in 10-minute increments, 240 minutes maximum

<Amplifier section>

Power output	30W + 30W (6 ohms, T.H.D. 1% 1 kHz)
Harmonic distortion	0.055% (10 W, 1 kHz, 6 ohms)
Input sensitivity	VIDEO/AUX: 400 mV

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	CrO_2 tape: 50 – 16,000 Hz Normal tape: 50 – 15,000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON, CrO_2 tape peak level)
Tape speed	4.8 cm/sec. ($1^7/_8$ ips)
Recording system	AC bias
Erasure system	AC erase
Motor	DC servomotor × 1
Heads	Playback head × 1 (deck 1) Recording/playback/erasure head × 1 (deck 2)

<CD player section>

Disc	Compact disc
Scanning method	Non contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser (λ = 780 nm)
Rotation speed	Approx. 500 rpm – 200 rpm (CLV)
Error correction	Cross Interleave, Reed Solomon code
No. of channels	2 channels
D-A conversion	16-bit linear
Wow/flutter	Unmeasurable
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05% (1 kHz, 0 dB)

<Speaker SX-N320>

Cabinet type	3way, bass reflex (Magnetism sealed type)
Speaker	130 mm ($5^1/_8$ in.) cone type woofer 50 mm (2 in.) cone type tweeter 20 mm ($^{13}/_{16}$ in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	180 × 302.5 × 200 mm ($7^1/_8$ × 12 × $8^3/_4$ in.)
Weight	2.8 kg (6.16 lb.)

<General>

Power requirements	AC 230V, 50 Hz
Power consumption	125 W
Dimensions (W × H × D)	Center unit: 260 × 302.5 × 329.5 mm ($10^1/_4$ × 12 × 13 in.) System: 620 × 302.5 × 329.5 mm ($24^1/_2$ × 12 × 13 in.)
Weight	Center unit: 6.2 kg (13.64 lb.) System: 11.4 kg (25.08 lb.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-017-448-010		IC, GD4052B
	87-017-465-010		IC, GD4066B
	87-001-376-010		IC LC7218
	87-017-434-010		IC, KIA6043S
	87-020-949-010		IC, LA1266
TRANSISTOR			
	87-026-609-080		TR, KTA1266GR
	87-026-610-080		TR, KTC3198GR
	89-503-655-680		FET, 2SK365 GR, BL
	89-505-445-080		FET, 2SK544E
MAIN C.B			
C101	87-010-399-090		CAP, E 3300-35 SME
C102	87-010-399-090		CAP, E 3300-35 SME
C103	87-010-390-090		CAP, ELECT 3300-25 SME
C104	87-010-237-080		CAP, E 1000-16
C105	87-010-381-080		CAP, E 330-16 SME
C106	87-010-764-080		CAP, E 47-63V
C107	87-010-384-080		CAP, E 100-25 SME
C108	87-010-384-080		CAP, E 100-25 SME
C109	87-010-263-080		CAP, E 100-10
C110	87-010-263-080		CAP, E 100-10
C111	87-010-370-080		CAP, E 330-6.3 SME
C112	87-010-237-080		CAP, E 1000-16
C113	87-010-403-080		CAP, E 3.3-50 SME
C114	87-018-205-080		CAP, TC-U 0.022-25 F
C116	87-018-127-080		CAP, TC-U 470P-50 B
C205	87-016-073-080		CAP, E 1-50 FX
C206	87-016-073-080		CAP, E 1-50 FX
C207	87-010-401-080		CAP, E 1-50 SME
C208	87-010-401-080		CAP, E 1-50 SME
C209	87-018-134-080		CAP, TC-U 0.01-16 Y
C210	87-018-134-080		CAP, TC-U 0.01-16 Y
C211	87-010-401-080		CAP, E 1-50 SME
C212	87-010-401-080		CAP, E 1-50 SME
C213	87-010-402-080		CAP, E 2.2-50 SME
C214	87-010-402-080		CAP, E 2.2-50 SME
C215	87-018-131-080		CAP, TC-U 1000P-50 B
C216	87-018-131-080		CAP, TC-U 1000P-50 B
C217	87-010-401-080		CAP, E 1-50 SME
C218	87-010-401-080		CAP, E 1-50 SME
C221	87-010-400-080		CAP, E 0.47-50 SME
C222	87-010-400-080		CAP, E 0.47-50 SME
C223	87-010-260-080		CAP, E 47-25 SME
C224	87-010-260-080		CAP, E 47-25 SME
C225	87-016-130-080		CAP, E 47-25 KME
C226	87-016-130-080		CAP, E 47-25 KME
C227	87-018-214-080		CAP, TC U 0.1-50 F
C228	87-018-214-080		CAP, TC U 0.1-50 F
C233	87-010-546-080		CAP, E 0.33-50 SME
C234	87-010-268-080		CAP, E 100-10 105
C235	87-010-260-080		CAP, E 47-25 SME
C236	87-010-408-080		CAP, E 47-50 SME
C237	87-010-403-080		CAP, E 3.3-50 SME
C238	87-010-403-080		CAP, E 3.3-50 SME
C243	87-018-104-080		CAP, TC-U 10P-50 SL
C244	87-018-104-080		CAP, TC-U 10P-50 SL
C245	87-018-119-080		CAP, TC-U 100P-50 B
C246	87-018-119-080		CAP, TC-U 100P-50 B
C303	87-018-122-080		CAP, TC-U 180P-50 B
C304	87-018-122-080		CAP, TC-U 180P-50 B
C309	87-018-134-080		CAP, TC-U 0.01-16 Y
C310	87-018-134-080		CAP, TC-U 0.01-16 Y
C313	87-018-205-080		CAP, TC-U 0.022-25 F
C314	87-010-260-080		CAP, E 47-25 SME
C351	87-018-121-080		CAP, TC-U 150P-50 B
C352	87-018-121-080		CAP, TC-U 150P-50 B
C353	87-018-124-080		CAP, TC-U 270P-50 B
C354	87-018-124-080		CAP, TC-U 270P-50 B
C355	87-010-260-080		CAP, E 47-25 SME
C361	87-018-134-080		CAP, TC-U 0.01-16 Y
C362	87-018-134-080		CAP, TC-U 0.01-16 Y
C365	87-018-205-080		CAP, TC-U 0.022-25 F
C401	87-010-402-080		CAP, E 2.2-50 SME
C402	87-010-402-080		CAP, E 2.2-50 SME
C407	87-010-401-080		CAP, E 1-50 SME
C408	87-010-401-080		CAP, E 1-50 SME
C415	87-018-121-080		CAP, TC-U 150P-50 B
C416	87-018-121-080		CAP, TC-U 150P-50 B
C451	87-018-123-080		CAP, TC-U 220P-50 B
C452	87-018-123-080		CAP, TC-U 220P-50 B
C453	87-018-131-080		CAP, TC-U 1000P-50 B
C455	87-018-131-080		CAP, TC-U 1000P-50 B
C456	87-010-260-080		CAP, E 47-25 SME
C459	87-018-198-080		CAP, TC-U 2700P-16 X
C501	87-010-404-080		CAP, E 4.7-50 SME
C502	87-010-404-080		CAP, E 4.7-50 SME
C503	87-018-131-080		CAP, TC-U 1000P-50 B
C504	87-018-131-080		CAP, TC-U 1000P-50 B
C505	87-010-401-080		CAP, E 1-50 SME
C506	87-010-401-080		CAP, E 1-50 SME
C507	87-018-131-080		CAP, TC-U 1000P-50 B
C508	87-018-131-080		CAP, TC-U 1000P-50 B
C509	87-010-371-080		CAP, E 470-6.3
C515	87-010-545-080		CAP, E 0.22-50 SME
C516	87-010-545-080		CAP, E 0.22-50 SME
C517	87-010-400-080		CAP, E 0.47-50 SME
C518	87-010-400-080		CAP, E 0.47-50 SME
C520	87-018-134-080		CAP, TC-U 0.01-16 Y
C521	87-018-134-080		CAP, TC-U 0.01-16 Y
C525	87-010-405-080		CAP, E 10-50 SME
C527	87-010-401-080		CAP, E 1-50 SME
C581	87-010-405-080		CAP, E 10-50 SME
C582	87-010-405-080		CAP, E 10-50 SME
C590	87-018-214-080		CAP, TC U 0.1-50 F
C601	87-010-401-080		CAP, E 1-50 SME
C602	87-010-401-080		CAP, E 1-50 SME
C605	87-018-121-080		CAP, TC-U 150P-50 B
C606	87-018-121-080		CAP, TC-U 150P-50 B
C607	87-018-134-080		CAP, TC-U 0.01-16 Y
C608	87-018-134-080		CAP, TC-U 0.01-16 Y
C609	87-010-401-080		CAP, E 1-50 SME
C610	87-010-401-080		CAP, E 1-50 SME
C611	87-010-404-080		CAP, E 4.7-50 SME
C612	87-010-404-080		CAP, E 4.7-50 SME
C615	87-018-198-080		CAP, TC-U 2700P-16 X
C616	87-018-198-080		CAP, TC-U 2700P-16 X
C617	87-018-122-080		CAP, TC-U 180P-50 B
C618	87-018-122-080		CAP, TC-U 180P-50 B
C621	87-010-400-080		CAP, E 0.47-50 SME
C622	87-010-400-080		CAP, E 0.47-50 SME
C623	87-010-404-080		CAP, E 4.7-50 SME
C624	87-010-404-080		CAP, E 4.7-50 SME
C628	87-010-404-080		CAP, E 4.7-50 SME
C630	87-010-405-080		CAP, E 10-50 SME
C631	87-010-401-080		CAP, E 1-50 SME
C632	87-010-401-080		CAP, E 1-50 SME
C633	87-010-101-080		CAP, E 220-16 SME
C635	87-010-405-080		CAP, E 10-50 SME
C636	87-010-404-080		CAP, E 4.7-50 SME
C681	87-010-405-080		CAP, E 10-50 SME
C700	87-010-221-080		CAP, E 470-10
C701	87-010-384-080		CAP, E 100-25 SME
C702	87-010-404-080		CAP, E 4.7-50 SME
C703	87-018-134-080		CAP, TC-U 0.01-16 Y
C705	87-010-248-080		CAP, E 220-10 SME

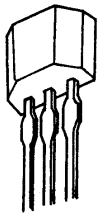
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C706	87-018-214-080		CAP, TC U 0.1-50 F
C710	87-018-149-080		CAP, TC-U 15P-50 CH
C713	87-018-199-080		CAP, TC-U 3300P-16 X
C714	87-018-199-080		CAP, TC-U 3300P-16 X
C715	87-018-195-080		CAP, TC-U 1200P-16 X
C716	87-018-195-080		CAP, TC-U 1200P-16 X
C720	87-018-121-080		CAP, TC-U 150P-50 B
C721	87-010-401-080		CAP, E 1-50 SME
C722	87-010-401-080		CAP, E 1-50 SME
C723	87-010-405-080		CAP, E 10-50 SME
C724	87-014-057-080		CAP, PP 1000P-100 J
C725	87-010-401-080		CAP, E 1-50 SME
C726	87-010-403-080		CAP, E 3.3-50 SME
C731	87-018-134-080		CAP, TC-U 0.01-16 Y
C732	87-018-131-080		CAP, TC-U 1000P-50 B
C734	87-018-131-080		CAP, TC-U 1000P-50 B
C741	87-010-402-080		CAP, E 2.2-50 SME
C742	87-018-125-080		CAP, TC-U 330P-50 B
C743	87-010-382-080		CAP, E 22-25 SME
C744	87-018-134-080		CAP, TC-U 0.01-16 Y
C745	87-018-134-080		CAP, TC-U 0.01-16 Y
C746	87-010-401-080		CAP, E 1-50 SME
C748	87-010-404-080		CAP, E 4.7-50 SME
C749	87-010-403-080		CAP, E 3.3-50 SME
C750	87-018-134-080		CAP, TC-U 0.01-16 Y
C751	87-018-134-080		CAP, TC-U 0.01-16 Y
C752	87-018-134-080		CAP, TC-U 0.01-16 Y
C754	87-010-260-080		CAP, E 47-25 SME
C755	87-010-401-080		CAP, E 1-50 SME
C756	87-018-134-080		CAP, TC-U 0.01-16 Y
C757	87-018-134-080		CAP, TC-U 0.01-16 Y
C758	87-010-404-080		CAP, E 4.7-50 SME
C759	87-018-134-080		CAP, TC-U 0.01-16 Y
C760	87-018-134-080		CAP, TC-U 0.01-16 Y
C761	87-018-131-080		CAP, TC-U 1000P-50 B
C771	87-018-214-080		CAP, TC U 0.1-50 F
C772	87-018-214-080		CAP, TC U 0.1-50 F
C777	87-010-248-080		CAP, E 220-10 SME
C778	87-018-119-080		CAP, TC-U 100P-50 B
C780	87-018-109-080		CAP, TC-U 22P-50 SL
C789	87-018-131-080		CAP, TC-U 1000P-50 B
C816	87-018-134-080		CAP, TC-U 0.01-16 Y
C817	87-018-134-080		CAP, TC-U 0.01-16 Y
C818	87-018-134-080		CAP, TC-U 0.01-16 Y
C819	87-018-134-080		CAP, TC-U 0.01-16 Y
C820	87-010-260-080		CAP, E 47-25 SME
C821	87-018-134-080		CAP, TC-U 0.01-16 Y
C826	87-018-134-080		CAP, TC-U 0.01-16 Y
C830	87-018-214-080		CAP, TC U 0.1-50 F
C840	87-018-134-080		CAP, TC-U 0.01-16 Y
C941	87-018-134-080		CAP, TC-U 0.01-16 Y
C942	87-018-105-080		CAP, TC-U 12P-50 SL
C944	87-018-104-080		CAP, TC-U 10P-50 SL
C945	87-014-050-080		CAP, PP 510P-100 J
C946	87-010-401-080		CAP, E 1-50 SME
C949	87-018-214-080		CAP, TC U 0.1-50 F
C983	87-010-544-080		CAP, E 0.1-50
C990	87-018-134-080		CAP, TC-U 0.01-16 Y
CF801	87-008-261-010		FLTR, SFE10.7MA5-A
CF802	87-008-261-010		FLTR, SFE10.7MA5-A
FE1	82-NE8-655-010		FE PACK OIRT
J250	87-049-855-010		JACK, 6.3 W/S
J253	80-MT3-616-010		JACK, PIN 2P
J254	87-033-226-010		TERMINAL, SP 4P (JT)
J652	80-MT3-616-010		JACK, PIN 2P
J801	81-653-648-010		ANT TERM EARTH PAL
J801	87-033-230-010		TERMINAL, ANT AJ-2016
L401	87-005-580-080		COIL, 10MHJ
L402	87-005-580-080		COIL, 10MHJ
L403	87-005-525-080		COIL, 22MH-J
L404	87-005-525-080		COIL, 22MH-J
L451	87-007-300-010		COIL, OSC BIAS 85K
L701	81-631-643-010		COIL 1 POLE MPX
L702	81-631-643-010		COIL 1 POLE MPX
L741	81-631-611-010		COIL, QUAD (SINGLE)
L742	87-008-491-010		FLTR, PACFAZ 450
L832	87-003-098-080		COIL, 2.2UH
L941	87-006-208-010		COIL, ANT LW
L942	87-007-305-010		COIL OSC LW S
R100	87-022-537-080		RES, NF 0.68-1/2W J
R101	87-022-537-080		RES, NF 0.68-1/2W J
R105	87-022-050-080		RESIS METAL 1W-0.22J
R106	87-022-050-080		RESIS METAL 1W-0.22J
R243	87-022-391-080		RES, M/F 0.47-1W
R244	87-022-391-080		RES, M/F 0.47-1W
R257	87-022-391-080		RES, M/F 0.47-1W
R258	87-022-391-080		RES, M/F 0.47-1W
RY101	87-045-335-010		RELAY, G5Z-2A 12VDC
SFR301	87-024-349-080		SFR, 1K DIA6 H
SFR302	87-024-349-080		SFR, 1K DIA6 H
SFR351	87-024-349-080		SFR, 1K DIA6 H
SFR352	87-024-349-080		SFR, 1K DIA6 H
SFR401	87-024-352-080		SFR, 4.7K DIA6 H
SFR451	87-024-356-080		SFR, 47K DIA6 H
SFR452	87-024-356-080		SFR, 47K DIA6 H
SFR721	87-024-352-080		SFR, 4.7K DIA6 H
SFR722	87-024-354-080		SFR, 22K DIA6 H
SFR723	87-024-355-080		SFR, 33K DIA6 H
TC701	87-011-221-080		TRIMMER. 30P VCT51
TC942	87-011-221-080		TRIMMER. 30P VCT51
TU101	81-MX4-619-010		AM PACK 4
VR651	81-MX4-636-010		VR, 50KBX2 RK14K12A0
W101	81-MX4-647-010		F-CABEL, 7P-2.5
W601	83-NE2-691-010		F-CABLE, 6P-2.0
X701	87-030-163-010		VIB, XTAL 7.2MHZ(NDK)

MISCELLANEOUS

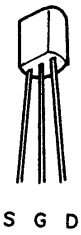
⚠	87-050-034-010	AC CORD ASSY, E
⚠PT101	82-NF5-624-210	PT, 2NF5

TRANSISTOR ILLUSTRATION

KTA1266
KTC3198



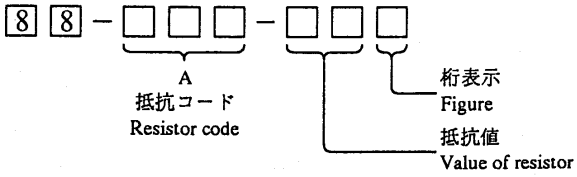
2SK544



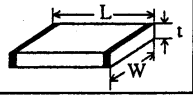
2SK365

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip resistor part coding



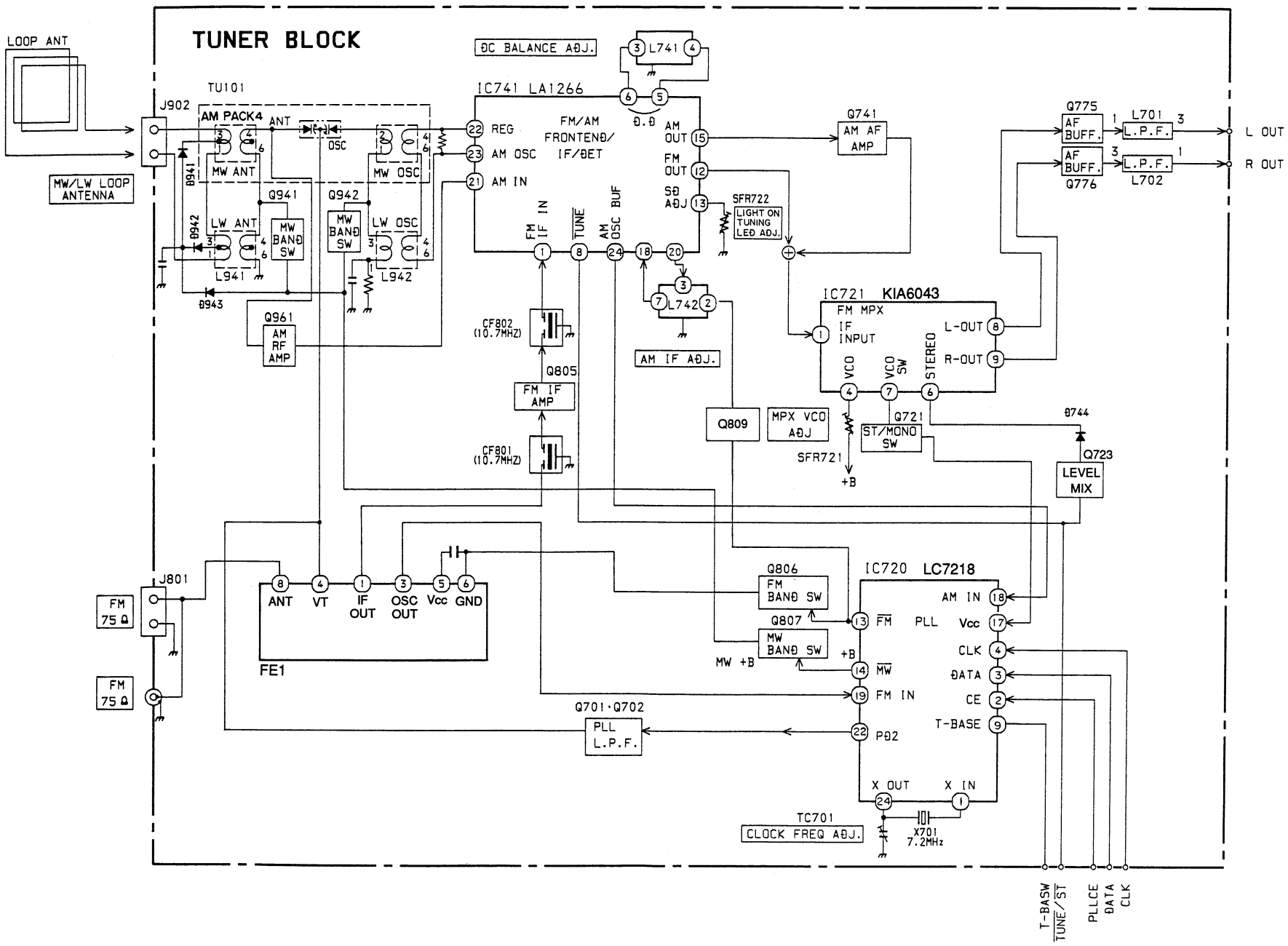
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form/外形	L	W	t	Resistor code : A 抵抗コード : A
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

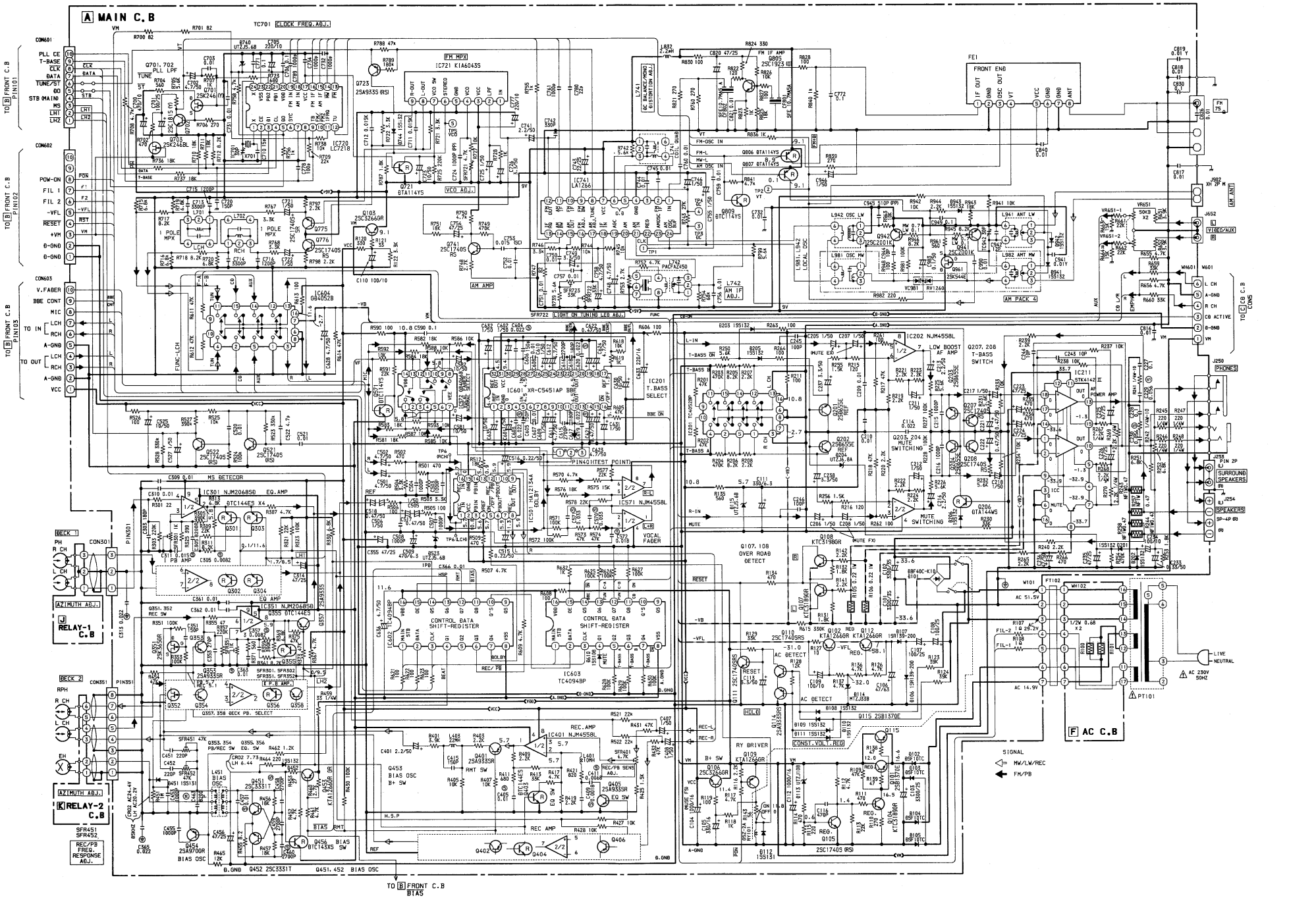
■ ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

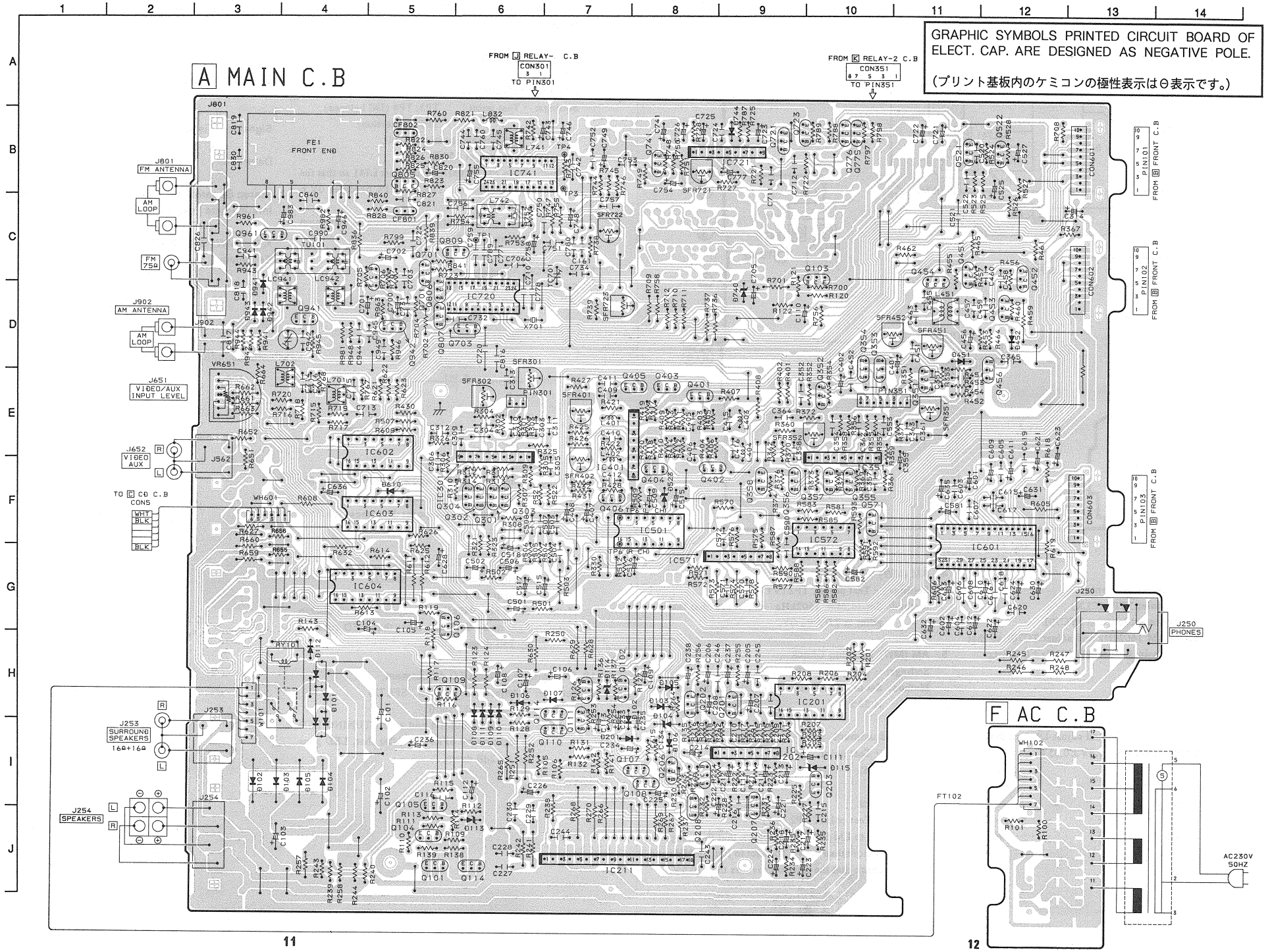
REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-NE8-921-010		IB, V(A)-M
2	87-006-226-010		AM LOOP ANT CON2
3	81-748-632-010		FEEDER ANT FMN
4	82-NE8-629-010		RC, RC-TN360 (DSP/EX)


TUNER BLOCK
LOOP ANT
MW/LW LOOP ANTENNA
TU101
J902
AM PACK4
ANT
OSC
MW ANT
MW OSC
LW ANT
LW OSC
L941
L942
D941
D942
D943
Q941
Q942
MW BAND SW
Q961
AM RF AMP
DC BALANCE ADJ.
L741
IC741 LA1266
REG
AM OSC
AM IN
FM/AM FRONTEND/ IF/DET
D.D
AM OUT
FM OUT
SD ADJ
SFR722
LIGHT ON TUNING LED ADJ.
FM IF IN
TUNE
AM OSC BUF
L742
AM IF ADJ.
CF802 (10.7MHZ)
CF801 (10.7MHZ)
Q805
FM IF AMP
Q741
AM AF AMP
IC721 KIA6043
FM MPX IF INPUT
L-OUT
R-OUT
VCO
VCO SW
STEREO
Q809
MPX VCO ADJ
SFR721
+B
Q721
ST/MONO SW
D744
Q723
LEVEL MIX
Q775
AF BUFF.
Q776
L701
L702
L.P.F.
L OUT
R OUT
J801
FM 75 Ω
FM 75 Ω
ANT
VT
IF OUT
OSC OUT
Vcc
GND
FE1
Q806
FM BAND SW
Q807
MW BAND SW
MW +B
IC720 LC7218
AM IN
PLL
Vcc
CLK
DATA
CE
T-BASE
FM IN
PD2
X OUT
X IN
TC701
CLOCK FREQ ADJ.
X701 7.2MHz
Q701·Q702
PLL L.P.F.
T-BASW
TUNE/ST
PLLCE
DATA
CLK

SCHEMATIC DIAGRAM

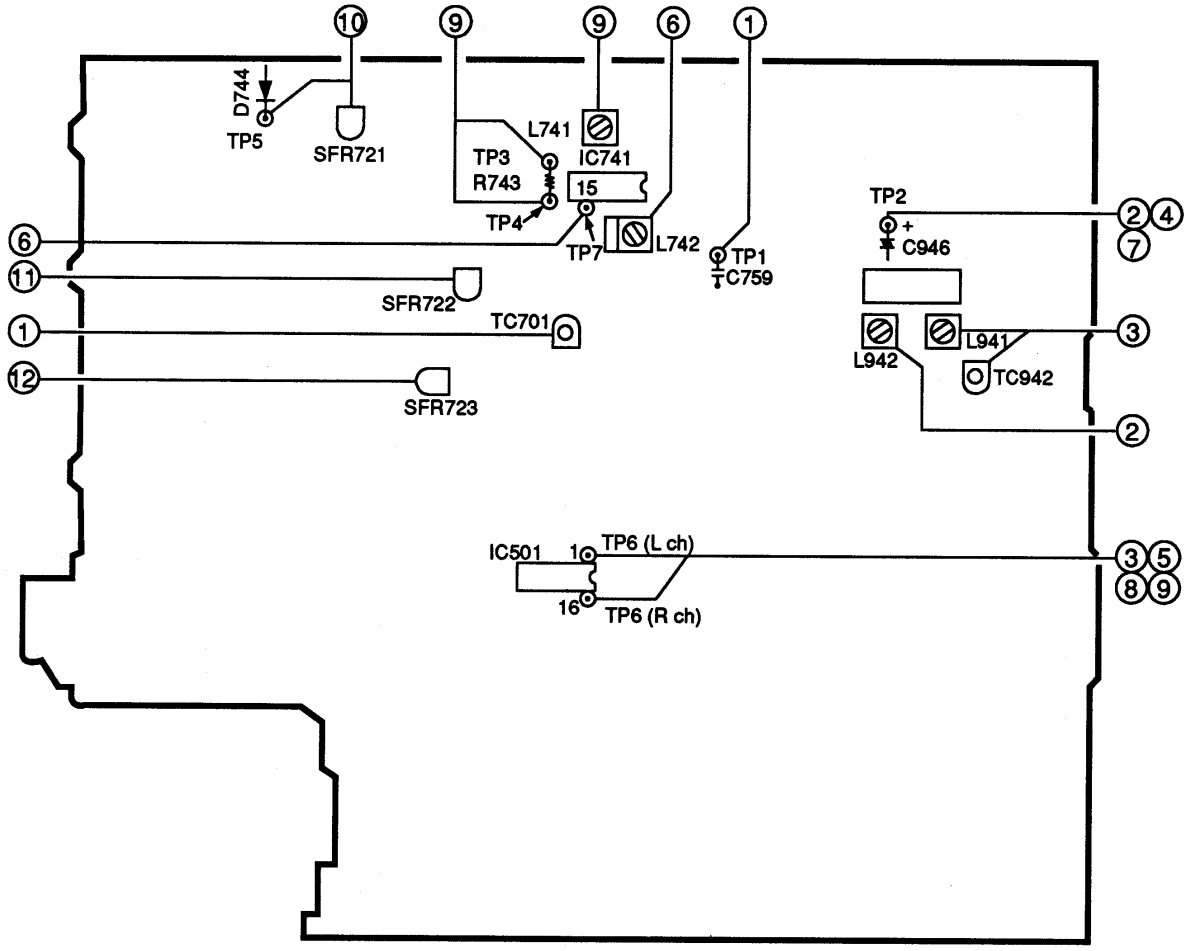


WIRING


GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.
(プリント基板内のケミコンの極性表示はθ表示です。)
A MAIN C.B
F AC C.B
FROM J RELAY- C.B
CON301
TO PIN301
FROM K RELAY-2 C.B
CON351
TO PIN351
J801
FM ANTENNA
AM LOOP
FM 75Ω
J902
AM ANTENNA
AM LOOP
J651
VIDEO/AUX INPUT LEVEL
J652
VIDEO AUX
TO C CD C.B
CON5
WHT
BLK
BLK
J253
SURROUND SPEAKERS
16Ω+16Ω
J254
SPEAKERS
J250
PHONES
FE1
FRONT END
IC741
IC721
IC720
IC602
IC403
IC604
IC401
IC501
IC571
IC572
IC601
IC201
IC211
FROM A FRONT C.B
PIN101
FROM B FRONT C.B
PIN102
FROM B FRONT C.B
PIN103
FROM B FRONT C.B
WH102
FT102
AC230V
50HZ
11
12

ADJUSTMENT—1 <TUNER>

A MAIN C.B



(TUNER SECTION)

1. Clock Frequency Adjustment
   Settings: · Test point : TP1 (CLK)
   · Adjustment location : TC701
   Method: Set to AM 1602kHz and adjust TC701 so that the test point becomes 2052kHz±0.01kHz.

2. LW VT Adjustment
   Settings: · Test point : TP2 (VT)
   · Adjustment location : L942
   Method: Set to LW 144kHz and adjust L942 so that the test point becomes 1.5V±0.05V.

3. LW Tracking Adjustment
   Setting: · Test point : TP6
   L941 ····· 144kHz
   TC942 ····· 290kHz

4. AM (MW) VT Check
   Settings: · Test point : TP2 (VT)
   Method: Set to MW 1602kHz and check that the test point is 7.0V±1.0V.

5. AM (MW) Tracking Check
   Settings: · Test point : TP6
   Method: Set to AM 999kHz and check that the test point is 53±6dB.

6. AM IF Adjustment
   Settings: · Test point : TP7
   L742 ····· 1008kHz

7 FM VT Check
   Settings: · Test point : TP2 (VT)
   Method: Set to FM 65MHz and check that the test point is more than 0.8V. Then set to FM 108MHz and check that the test point is less than 10.6V.

8. FM Tracking Check

Settings: · Test point : TP6

Method: Check that the test point is 4±4dB and distortion is less than 3% at FM 87.5MHz and FM 108.0MHz.

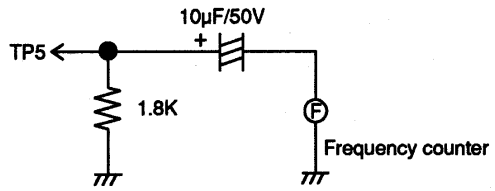
9. DC Balance/MONO Distortion Adjustment

Settings: · Test point : TP3, TP4 (DC balance)
TP6 (Distortion)
· Adjustment location : L741
· Input level : 54dB

Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V± 0.02V.
Next, check that the distortion is minimum (less than 0.9%).

10. MPX VCO Adjustment

Settings: · Test point : TP5
· MODE SW : STEREO
· Adjustment location : SFR721
· Input level : 54dB



Method: Connect a capacitor and a resitor as above. Set to FM 98.0MHz and adjust SFR721 so that the frequency at test point becomes 38kHz± 0.05kHz.

11. MW Light on tuning LED Adjustment

Settings: · Adjustment location : SFR722
· Input level : 53dB

Method: Set to MW 999kHz and adjust TUNING LED to light on by SFR722. After that, LED goes out by 2dB down.

12. FM Light on tuning LED Adjustment

Settings: · Adjustment location : SFR723
· Input level : 16dB

Method: Set to FM 98.0MHz and adjust TUNING LED to light on by SFR723. After that, LED goes out by 2dB down.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

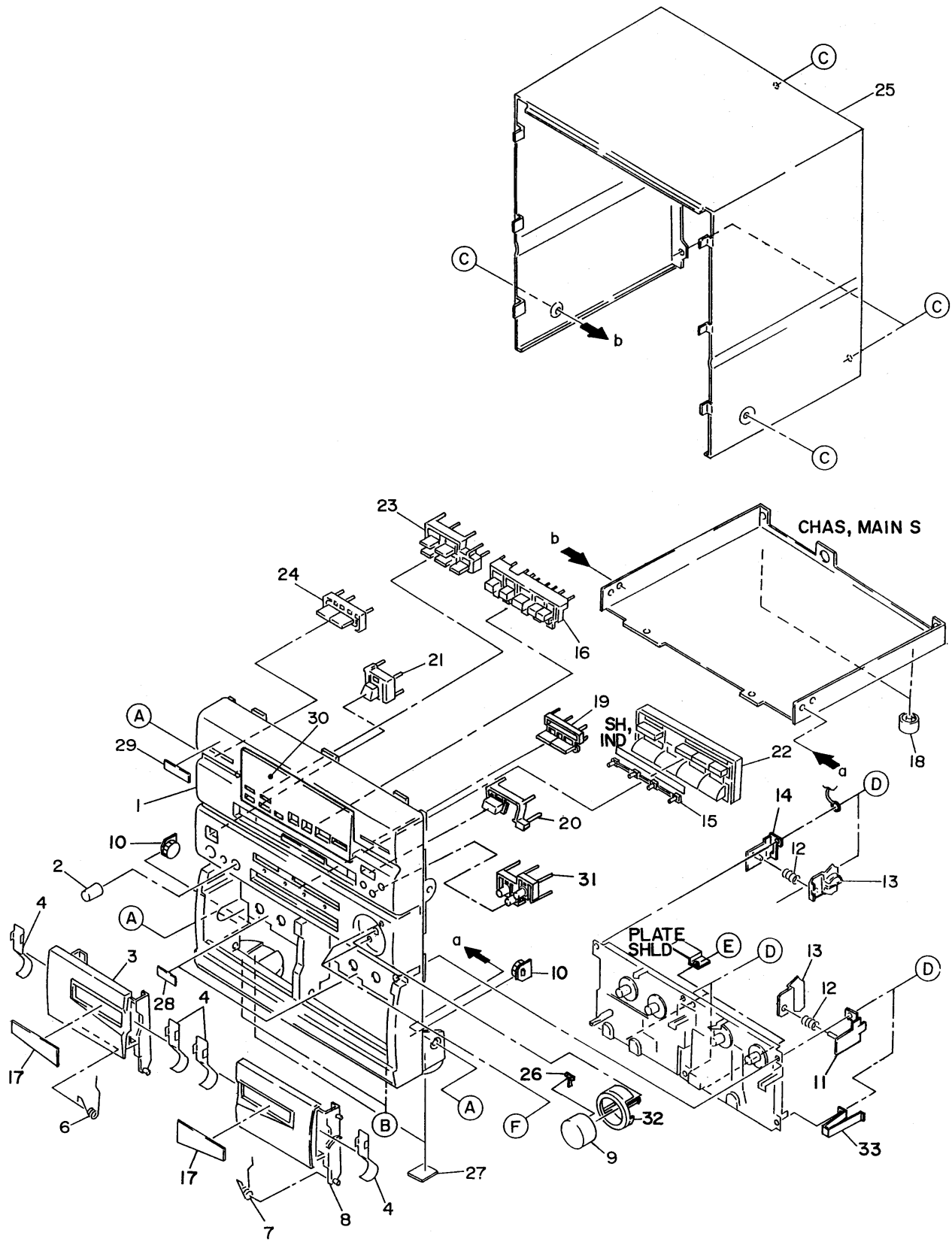
<FM SECTION>

IHF Sensitivity:	4±4dB
(THD 3%)	(at 87.5, 98.0, 108.0MHz)
S/N 50dB Quieting Sensitivity:	
	32±5dB
	(at 87.5, 98.0, 108.0MHz)
Signal to Noise Ratio:	More than 64dB
	(at 98.0MHz)
Dstortion:	Less than 0.9%
	(at 98.0MHz)
Stereo Separation:	More than 25dB (at 98.0MHz)
Intermediate Frequency:	10.7MHz

<AM (MW) SECTION>

Sensitivity:	$54\pm^{8}_{6}$ dB
	(at 603kHz)
	53±6dB
	(at 999/1404kHz)
Distortion:	Less than 1.5%
	(at 999kHz)
Intermediate Frequency:	450kHz

MECHANICAL EXPLODED VIEW—1/2

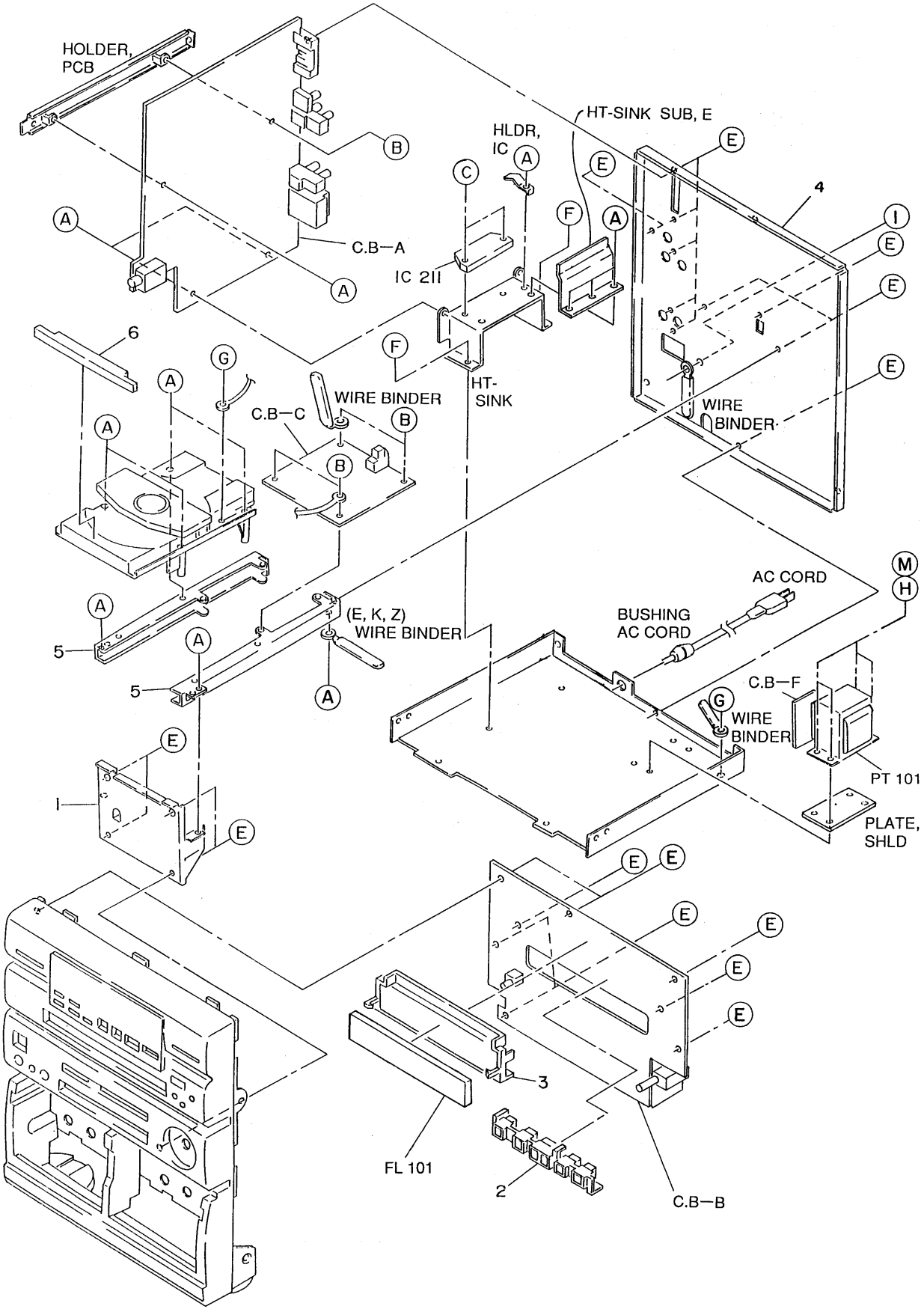


MECHANICAL PARTS LIST－1/2

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-NE8-022-110		CAB, FR E
2	82-NE8-019-010		KNOB, MIC
3	82-NE8-046-110		BOX, CASS 1 EX
4	81-MX4-223-010		SPR-P, CASS
5	82-NE8-014-010		WINDOW, BOX 1
6	82-NF5-218-010		SPR-T, EJECT 1 (SIN)
7	82-NF5-219-010		SPR-T, EJECT 2 (SIN)
8	82-NE8-047-010		BOX, CASS 2 EX
9	82-NF5-012-110		KNOB, VOL
10	87-063-165-010		OIL-DMPR 150
11	82-NF5-227-010		HLDR, LOCK 2N
12	82-NF5-228-010		SPR-C, LOCK
13	82-NF5-229-010		PLATE, LOCK
14	82-NF5-226-010		HLDR, LOCK 1N
15	82-NE8-020-010		IND, FUN
16	82-NE8-010-010		KEY, PLAY
17	82-NE8-015-010		WINDOW, BOX 2
18	87-085-221-010		FOOT, H 13.5
19	82-NE8-005-010		KEY, TU
20	82-NE8-006-010		KEY, CD
21	82-NE8-007-010		KEY, POWER
22	82-NE8-008-010		KEY, FUN EX
23	82-NE8-011-010		KEY, DUBB
24	82-NE8-009-010		KEY, SLEEP
25	82-NE8-043-010		CAB, STEEL G
26	82-NE6-016-010		IND, MAIN (VOL)
27	80-VT1-202-010		FELT, 12.5-15.5-2
28	81-532-080-010		LBL, CASS-COMPT
29	82-NE8-032-010		BADGE, AIWA 27.5
30	82-NE8-013-010		WINDOW, DISPLAY
31	82-NE8-048-110		KEY, DSP
32	82-NE8-016-010		RING, VOL
33	82-NF5-216-010		PLATE, EARTH MECHA
A	87-591-094-410		QIT + 3 - 6 GOLD
B	87-067-716-010		BVTT+3-6 BLK
C	87-067-641-010		UTT2+3-8 W/O SLOT BLK
D	87-067-761-010		BVT2+3-10 BLK
E	87-571-032-410		VIT+2-3
F	87-067-579-010		BVT 2+3-8 W/O SLOT

MECHANICAL EXPLODED VIEW—2/2



MECHANICAL PARTS LIST—2/2

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-NE8-219-010		HLDR, CD 0.8G
2	81-MX4-210-010		GUIDE, PLAY
3	81-DS2-204-210		GUIDE, FL
4	82-NE8-098-010		PANEL, REAR VBNE
5	82-NE8-210-010		HLDR, CD 3 0.8
6	82-NE8-018-110		PANEL, TRAY
A	87-067-579-010		BVT 2+3-8 W/O SLOT
B	87-067-633-010		BVT2+3-8 W/CONVEX
C	87-067-581-010		BVT2+3-15 W/O SLOT
D	87-067-586-010		BVTT +4-8
E	87-067-761-010		BVT2+3-10 BLK
F	87-067-584-010		BVT2+3-6 W/O SLOT
G	87-067-688-010		BVTT +3-6
H	87-422-308-010		SW4
I	87-084-077-010		NYLON RIVET DIA 3.5 - 4.5

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
ｻｰｼﾞｻﾌﾟﾚｯｻ	SERGESUPPRESSOR
ｾﾗｺﾝ	CAP, CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BAT, CONTACT ASSY	BATTERY CONTACT ASSY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
KNOB, VOL REV	KNOB, VOLUME REV
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTORL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOADING MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
SW	SWITCH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ｼｸｱｰﾑ	ARM, SHAFT
ｼｸｶﾞｲﾄﾞ	GUIDE, SHAFT
ｽﾄﾗｯﾌﾟ	STRAP
ﾋﾝｼﾞ	HINGE

サービス技術ニュース	
番号	連絡内容
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